International Application No PCT/US2004/031617

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/47 C12Q1/68

G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q G01N C12N

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, Sequence Search

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/008583 A (MORRIS DAVID W; ENGELHARD ERIC K (US); SAGRES DISCOVERY (US)) 30 January 2003 (2003-01-30) abstract pages 1-4 pages 32-37 claim 1; table 6 Seq. Id Nos: 19-24	1-30,33, 34, 38-49,55
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Ī	Υ	Further documents are listed in the	continuation of box C.
- 1		· Grator determinant	

X Patent family members are listed in annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filling date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

18 -07- 2005

"&" document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

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17 February 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2

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Aguilera, M

Form PCT/ISA/210 (second sheet) (January 2004)

page 1 of 3

International application No.

PCT/US2004/031617

Box i	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)	
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:	
	a.	type of material	
		X a sequence listing	
		table(s) related to the sequence listing	
	b.	format of material	
		in written format	
		X in computer readable form	
	c.	time of filing/furnishing	
		X contained in the international application as filed	
		filed together with the international application in computer readable form	
		furnished subsequently to this Authority for the purpose of search	
2.	х	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	I
3.	Addi	tional comments:	
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International application No. PCT/US2004/031617

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This I	International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. [	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
з. [	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box	III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This !	International Searching Authority found multiple inventions in this international application, as follows:				
	see additional sheet				
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. [	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-30, 33, 34, 38-49 and 55; all partially				
Rem	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-30, 33, 34, 38-49 and 55; all partially  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-30, 33, 34, 38-49 and 55; all partially

Nucleic acid arrays comprising at least two nucleic acids, one of which comprises at least 10 contiguous nucleotides of SEQ ID NO: 5, while the other comprises at least 10 contiguous nucleotides of any of the sequences listed in claim 1; methods of diagnosing cancer comprising determining the level of expression of a nucleic acid of SEQ ID NO: 5.

2. claims: 1-30, 33, 34, 38-49 and 55; all partially

Peptide arrays comprising at least two polypeptides, one of which is encoded by any open reading frame within SEQ ID NO: 4, while the other is encoded by any open reading frame within any of the sequences listed in claim 4.

3. claims: 1-30, 33, 34, 38-49 and 55; all partially

Peptide arrays comprising at least two polypeptides, one of which is encoded by SEQ ID NO: 5, while the other is encoded by any of the sequences listed in claim 5.

4. claims: 1-30, 33, 34, 38-49 and 55; all partially

Peptide arrays comprising at least two polypeptides, one of which is SEQ ID NO: 6 and the other is any of the sequences listed in claim 6.

5. claims: 1-30, 33, 34, 38-49 and 55; all partially

Antibodies or fragments thereof that bind polypeptides derived from SEQ ID NO: 4; hybridomas producing them; kits and pharmaceutical compositions comprising them.

6. claims: 1-30, 33, 34, 38-49 and 55; all partially

Methods of detecting the presence of cancer cells using antibodies against polypeptides derived from SEQ ID NO: 4

7. claims: 1-30, 33, 34, 38-49 and 55; all partially

Kits comprising at least two nucleic acids, one of which hybridizes to a nucleic acid derived from SEQ ID NO: 4

8. claims: 1-30, 33, 34, 38-49 and 55; all partially

Kits comprising at least two nucleic acids, one of which hybridizes to a nucleic acid derived from SEQ ID NO: 5

- 9. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of screening for anticancer activity using cells expressing a gene encoded by SEQ ID NO: 4
- 10. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of screening for anticancer activity using cells expressing a gene encoded by SEQ ID NO: 5
- 11. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of diagnosing cancer comprising determining the level of expression of a polypeptide of SEQ ID NO: 6
- 12. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of detecting cancer comprising detecting the level of activity of a polypeptide of SEQ ID NO: 6
- 13. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of detecting cancer comprising detecting the level of antibodies against a polypeptide of SEQ ID NO: 6
- 14. claims: 1-30, 33, 34, 38-49 and 55; all partially

  Methods of screening for anticancer drugs capable of modulating the activity of a protein encoded by SEQ ID NO: 5
- 15. claims: 1-30, 33, 34, 38-49 and 55; all partially

INVENTIONS 15 TO 448:
Methods and products for the diagnosis and treatment of cancer based on gene 1-007 and its gene products (SEQ ID NOS: 7-12; Table 125).
+++ [idem for each one of the remaining genes listed in Table 125] +++

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International Application No
PCT/US2004/031617

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE GEO [Online] NCBI; 11 March 2002 (2002-03-11), AFFYMETRIX, INC.: "Affymetrix GeneChip Human Genome U133 Array Set HG-U133A" XP002317788 retrieved from HTTP://WWW.NCBI.NLM.NIH.GOV/PROJECTS/GEO/ Database accession no. GLP96 probes "206337_at" and "221455_s_at" abstract	1-30,33, 34, 38-49,55
<b>X</b>	HOEPKEN UTA E ET AL: "Up-regulation of the chemokine receptor CCR7 in classical but not in lymphocyte-predominant Hodgkin disease correlates with distinct dissemination of neoplastic cells in lymphoid organs" BLOOD, vol. 99, no. 4, 15 February 2002 (2002-02-15), pages 1109-1116, XP002292389 ISSN: 0006-4971 the whole document	1-30,33, 34, 38-49,55
x	MUELLER ANJA ET AL: "Involvement of chemokine receptors in breast cancer metastasis" NATURE (LONDON), vol. 410, no. 6824, 1 March 2001 (2001-03-01), pages 50-56, XP002292390 ISSN: 0028-0836 the whole document	1-30,33, 34, 38-49,55
X	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; November 2001 (2001-11), KATOH M: "Molecular cloning and characterization of human WNT3." XP002317789 Database accession no. NLM11604997 abstract & INTERNATIONAL JOURNAL OF ONCOLOGY. NOV	1-30,33, 34, 38-49,55
٠.,	2001, vol. 19, no. 5, November 2001 (2001-11), pages 977-982, ISSN: 1019-6439	
Α	-WO 02/057497 A (MORRIS DAVID W) 25 July 2002 (2002-07-25) the whole document	
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Intern. Mai Application No
PCT/US2004/031617

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		]
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
P	AUGENLICHT L H ET AL: "CLONING AND SCREENING OF SEQUENCES EXPRESSED IN A MOUSE COLON TUMOR" CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 42, no. 3, March 1982 (1982-03), pages 1088-1093, XP000929512 ISSN: 0008-5472 the whole document		
\	US 2003/073162 A1 (LAL PREETI G ET AL) 17 April 2003 (2003-04-17) paragraph [0251] 		
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Information on patent family members

International Application No PCT/US2004/031617

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03008583 A	30-01-2003	US 2003194702 A1 US 2004072264 A1 US 2004072154 A1 US 2003216558 A1 WO 03008583 A2 US 2003232334 A1 US 2003165878 A1 US 2003165878 A1 US 2003087252 A1 US 2003087252 A1 US 2003064383 A1 US 2003064383 A1 WO 03035837 A2 CA 2465921 A1 EP 1469870 A2 JP 2005508175 T WO 03039484 A2 AU 2002364708 A1 CA 2468316 A1 EP 1476067 A2 JP 2005510225 T WO 03045230 A2 AU 2002364052 A1 CA 2470844 A1 EP 1469769 A2 JP 2005512558 T WO 03053224 A2	16-10-2003 15-04-2004 15-04-2004 20-11-2003 30-01-2003 18-12-2002 04-09-2003 29-05-2003 03-04-2003 01-05-2003 15-05-2003 27-10-2004 31-03-2005 15-05-2003 10-06-2003 10-06-2003 05-06-2003 17-11-2004 21-04-2005 05-06-2003 09-07-2003 03-07-2003 27-10-2004 12-05-2005 03-07-2003
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